

WHAT IS CLAIMED IS:

1. An electrical connector comprising an insulator and a plurality of contact pins held by the insulator, wherein the insulator comprises a base portion elongated in a first direction and having a thickness in a second direction perpendicular to the first direction and a height in a third direction perpendicular to the first and second directions, the insulator further comprises a plate like portion, the plate like portion extending in the second direction from a top end of the base portion in the third direction and having first and second surfaces opposite to each other in the third direction, the plate like portion having a plurality of grooves formed in the first surface, the grooves extending in parallel with each other in the second direction and being spaced from each other in the first direction so that a plurality of ridges are formed between the respective neighboring ones of the grooves in the first direction, and wherein the contact pins are supported by the base portion and extend in the second direction along the grooves, respectively, characterized in that the insulator is provided with a pattern on the second surface, the pattern comprises at least one depressed portion formed in the second surface and/or at least one raised portion formed on the second surface.

2. The electrical connector according to claim 1, wherein the insulator is made of anisotropic resin, preferably liquid crystal polymer.

3. The electrical connector according to claim 1, wherein the pattern comprises a plurality of depressed portions and/or a plurality of raised portions, wherein each of the depressed portion extends in the second direction and having a shape longer in the second direction than in the first direction, and wherein each of the raised portions extends in the second direction and has a shape longer in the second direction than in the

first direction.

4. The electrical connector according to claim 3, wherein each of the depressed portions is positioned in correspondence with any one of the ridges.

5 5. The electrical connector according to claim 3, wherein each of the material-raised portions is positioned in correspondence with any one of the grooves.

6. The electrical connector according to claim 1, wherein each of the depressed portions is comprised of two or more sections, which are
10 arranged on one imaginary line extending in the second direction.

7. The electrical connector according to claim 1, wherein each of the raised portions is comprised of two or more sections, which are arranged on one imaginary line extending in the second direction.

8. The electrical connector according to claim 6, wherein the
15 sections constituting one depressed portion have different depths from each other.

9. The electrical connector according to claim 7, wherein the sections constituting one raised portion have different heights from each other.

20 10. The electrical connector according to claim 6, wherein the sections constituting one depressed portion are separated from each other in the second direction.

11. The electrical connector according to claim 7, wherein the sections constituting one raised portion are separated from each other in the
25 second direction.

12. The electrical connector according to claim 1, wherein the pattern comprises at least one raised portion extending in the first direction, the raised portion having a shape longer in the first direction than in the

second direction.

13. The electrical connector according to claim 12, wherein a plurality of raised portions are arranged in the first direction, and/or arranged in the second direction.

5 14. The electrical connector according to claim 13, wherein the plurality of raised portions are separated from each other in the first and/or the second directions.

15 15. The electrical connector according to claim 12, which further comprises depressed portions in the second surface, each of the depressed portions extending in the second direction without intersecting with the raised portions.

15 16. The electrical connector according to claim 1, wherein the insulator further comprises two side blocks joined to the base portion and the plate like portion at opposite ends thereof in the first direction, and the insulator is covered with a tubular metallic shell, the metallic shell comprising a top portion overlying the second surface of the plate like portion, opposite side portions overlying outer surfaces of the opposite two side blocks, and a lower portion extending between the two opposite side blocks in the first direction and facing the first surface of the plate like portion spaced from the first surface and the contact pins in the third direction.

20 17. The electrical connector according to claim 13, which further comprises a ground plate, which comprises a plate portion extending in the first direction and being held in the base portion, and ground contact portions extending from the plate portion in the second direction along the lower portion of the metallic shell, the ground contacts being spaced from the contact pins in the third direction.